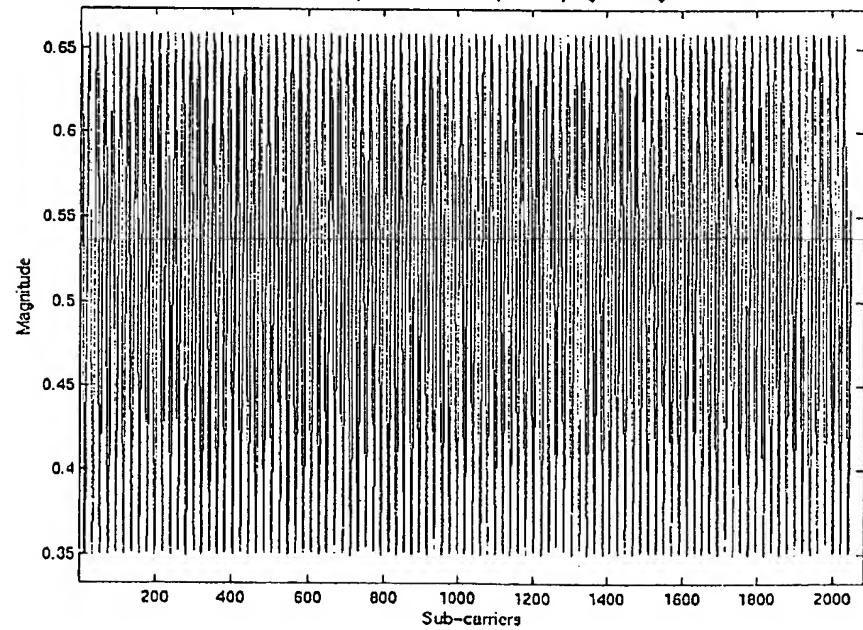


FIG. 2
Channel Frequency Function of a 2-path Rayleigh Fading Channel



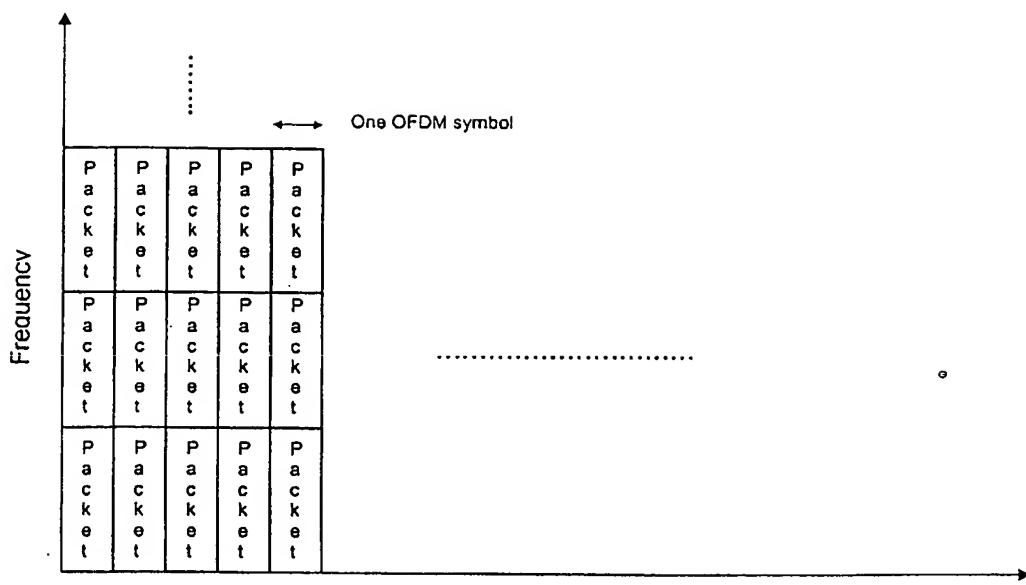


FIG. 3 MODE 1

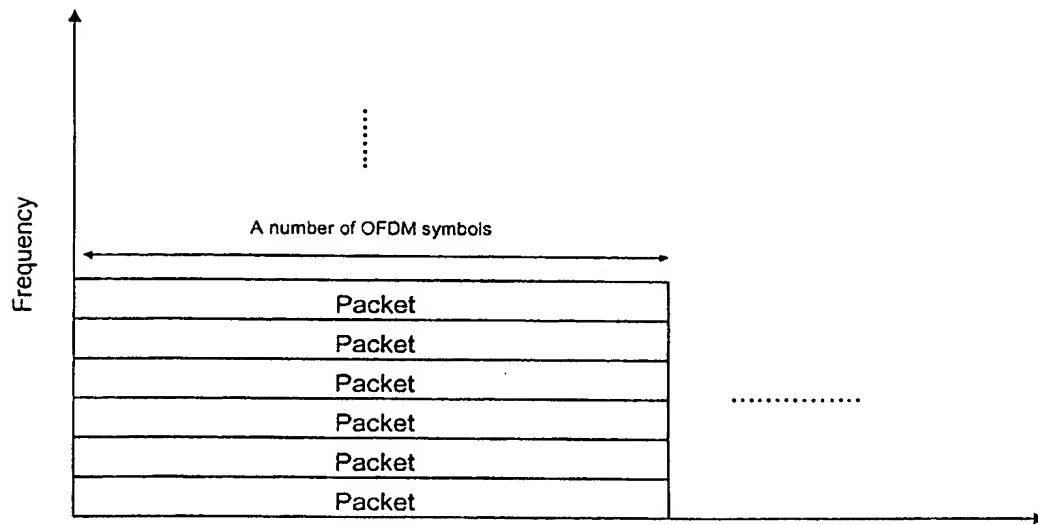


FIG. 4 MODE 2

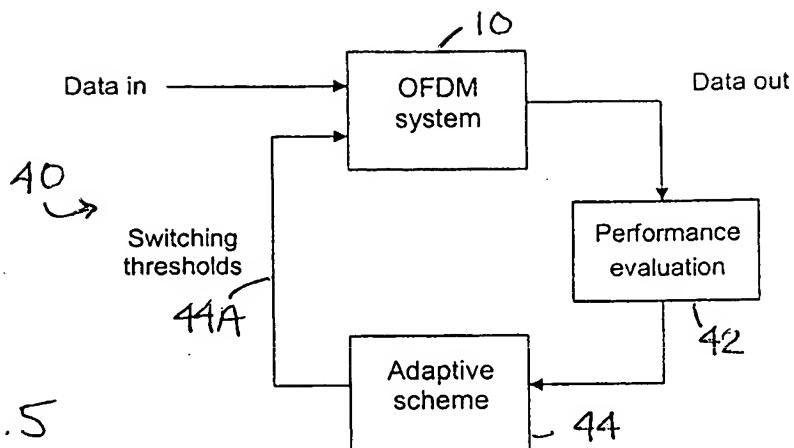


Fig. 5

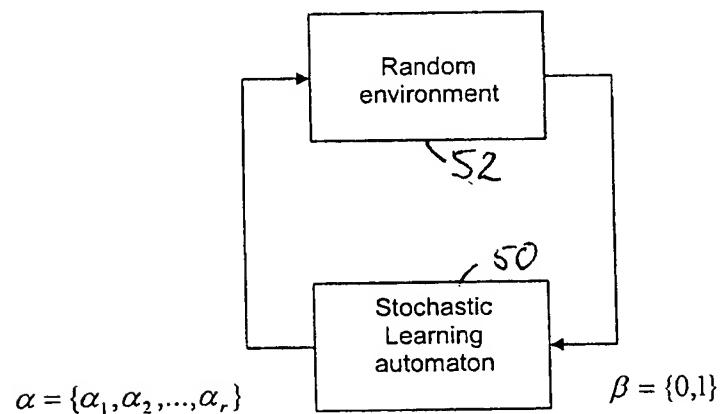


Fig. 6

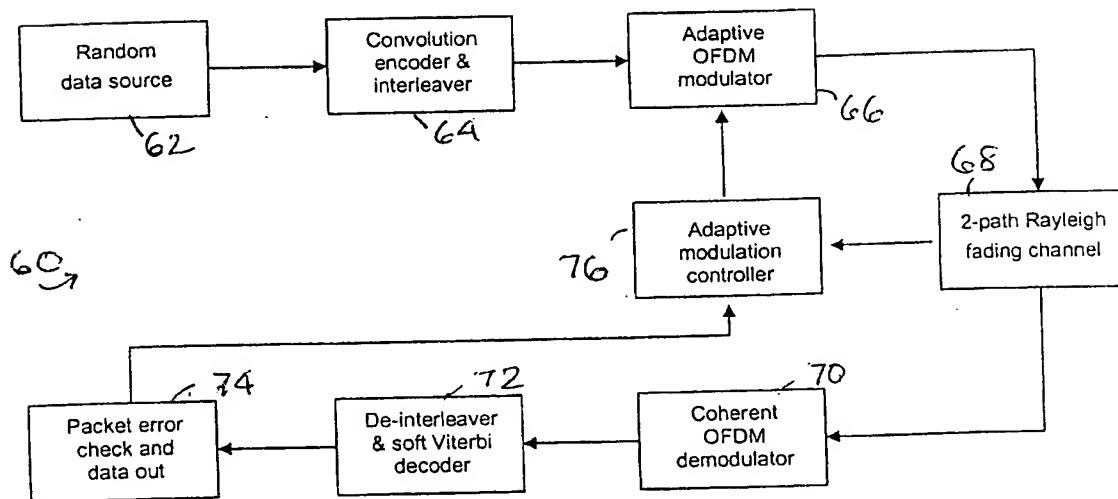
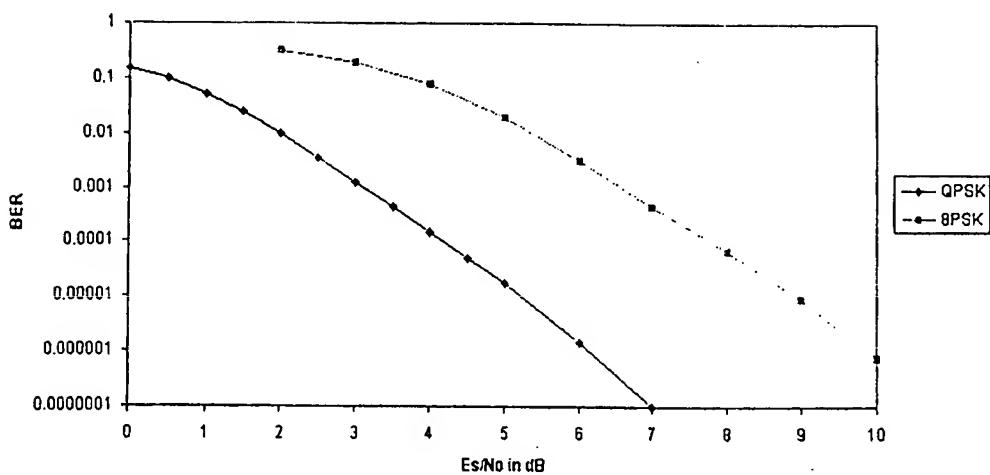


Fig. 7

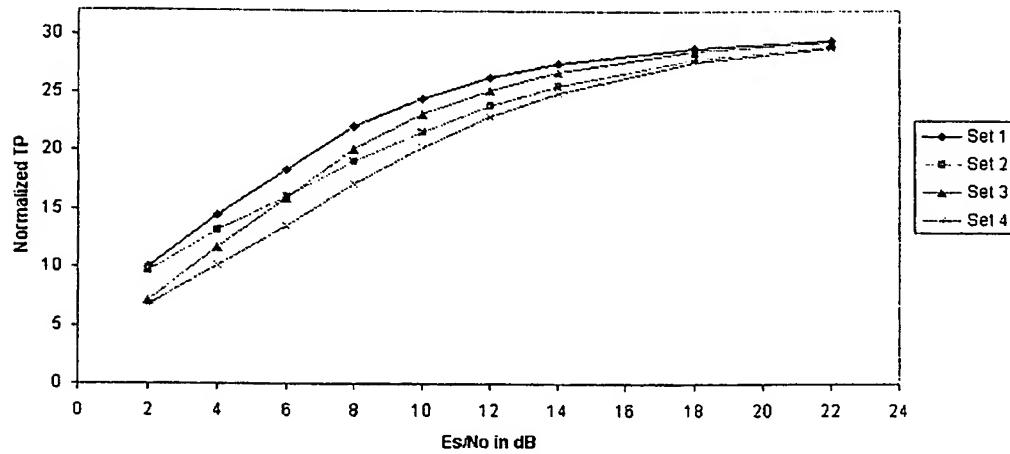
BER - 1/2 rate coding, 96 bits per packet
 Fixed modulation scheme
 AWGN channel

FIG. 8



TP - 1/2 rate coding, 2-path Rayleigh fading, 96 bits per packet
 Adaptive QPSK/8PSK modulation, 20 Hz Doppler
 Switching threshold set 1-4, mode 1

FIG. 9



TP - 1/2 rate coding, 2-path Rayleigh fading, 96 bits per packet
 Adaptive QPSK/8PSK modulation, 20 Hz Doppler
 Switching threshold set 1-4, mode 2

FIG. 10

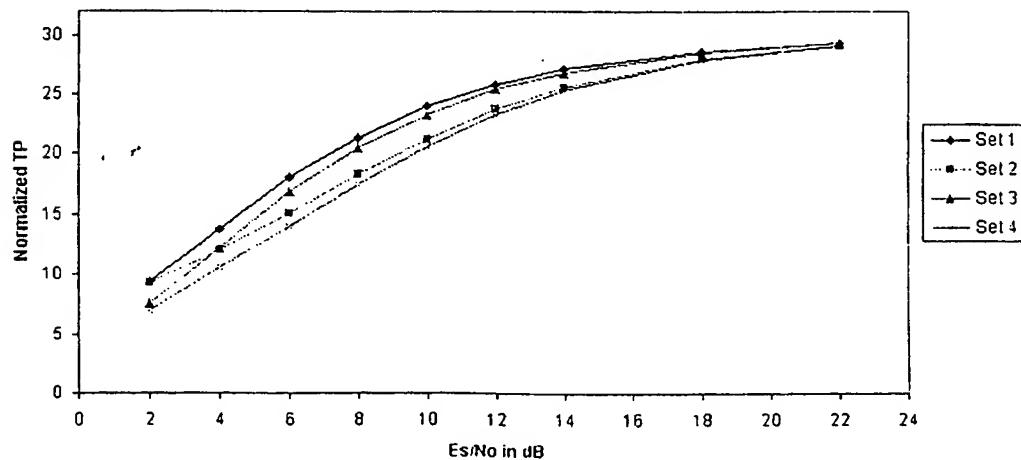


Fig. 11
TP - 1/2 rate coding, 2-path Rayleigh fading, 96 bits per packet
Fixed QPSK and 8PSK modulation scheme
20 Hz Doppler, mode 1

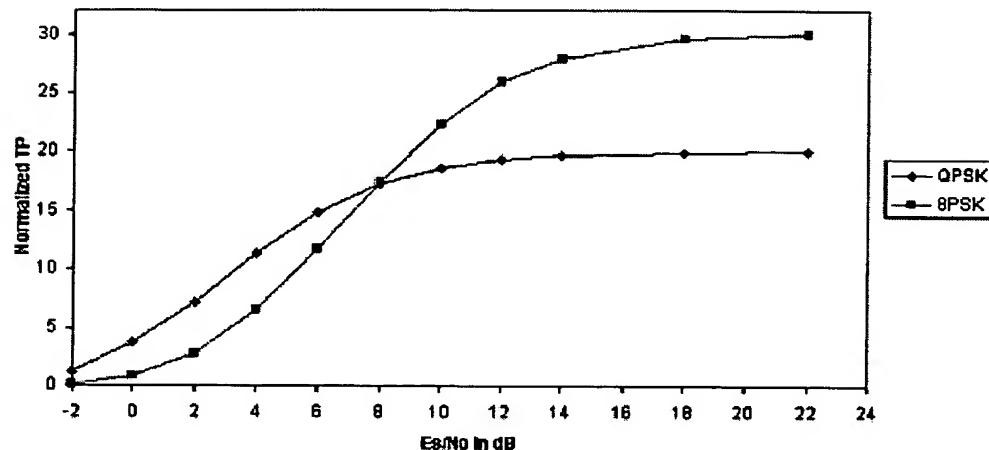


Fig. 12
TP - 1/2 rate coding, 2-path Rayleigh fading, 96 bits per packet
Fixed QPSK and 8PSK modulation scheme
20 Hz Doppler, mode 2

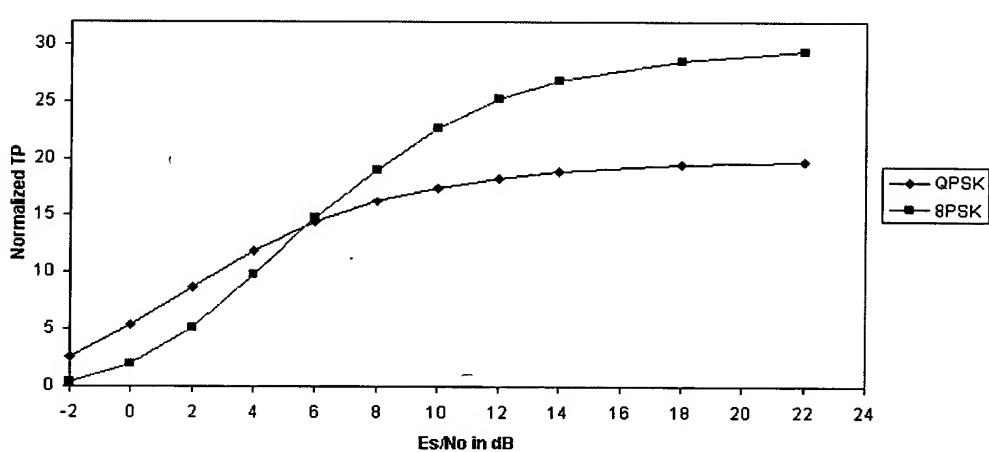
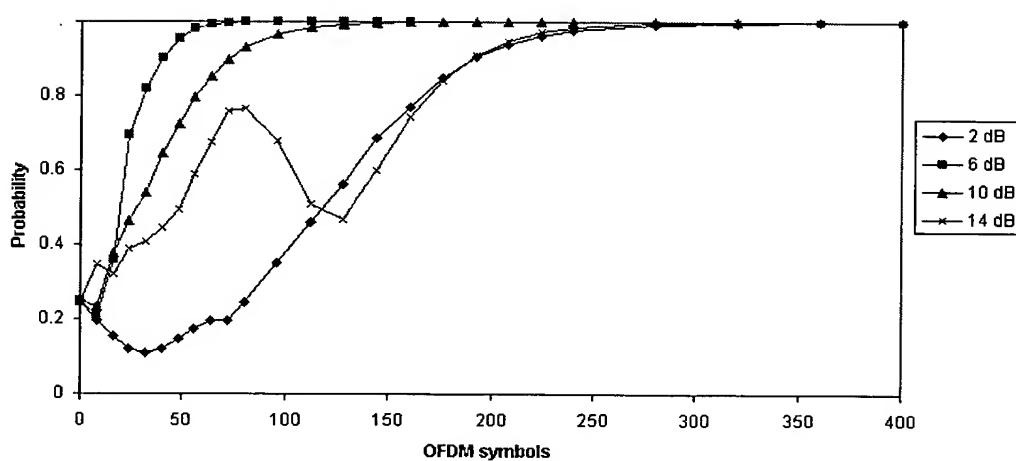
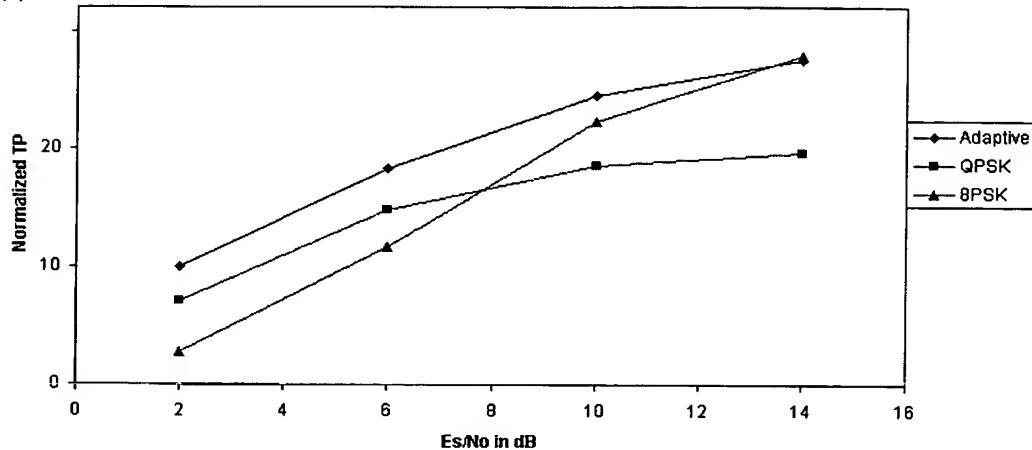


Fig. 13
Probability convergence of desired action
1/2 rate coding, 2-path Rayleigh fading, 96 bits per packet
Adaptive modulation, 20 Hz Doppler, mode 1



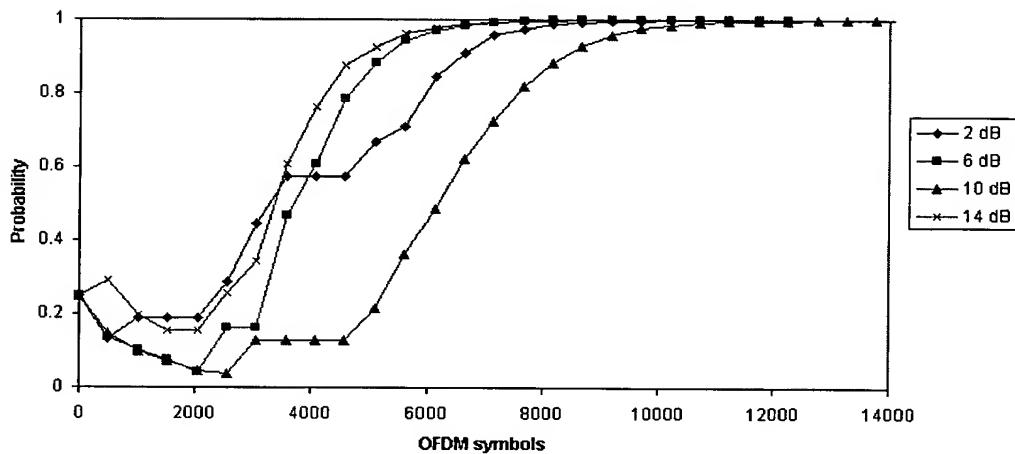
TP - 1/2 rate coding, 2-path Rayleigh fading, 96 bits per packet
 Adaptive modulation with automaton-selected switching thresholds and
 fixed QPSK & 8PSK modulations. 20 Hz Doppler, mode 1

Fig. 14



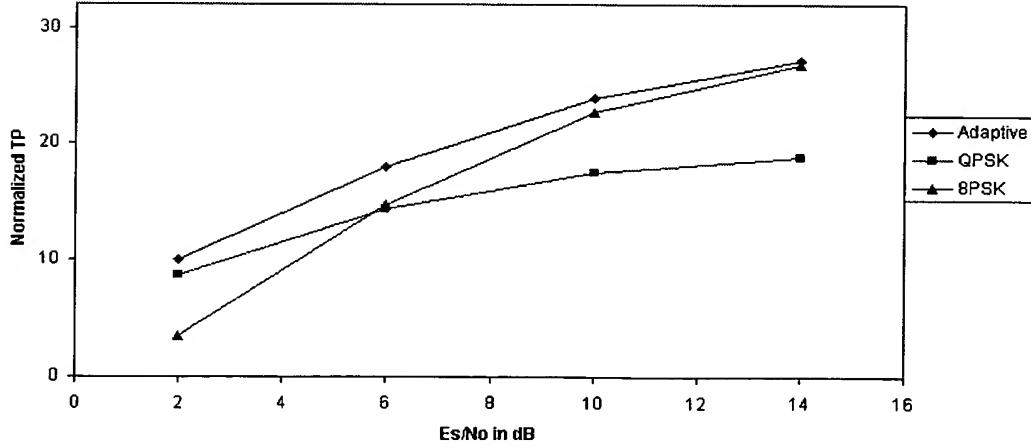
Probability convergence of desired action
 1/2 rate coding, 2-path Rayleigh fading, 96 bits per packet
 Adaptive modulation, 20 Hz Doppler, mode 2

Fig. 15

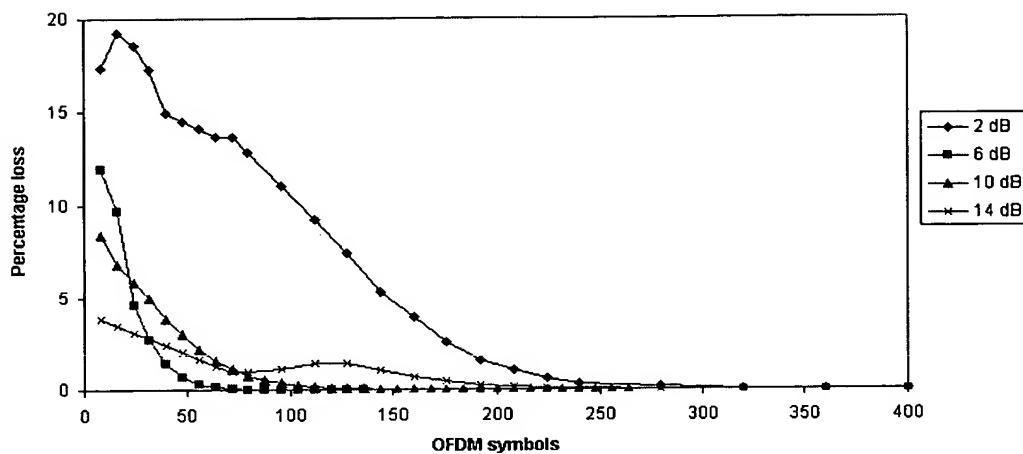


TP - 1/2 rate coding, 2-path Rayleigh fading, 96 bits per packet
 Adaptive modulation with automaton-selected switching thresholds and
 fixed QPSK & 8PSK modulations. 20 Hz Doppler, mode 2

Fig. 16



Average percentage loss of TP while learning scheme converges
Fig. 17 1/2 rate coding, 2-path Rayleigh fading, 96 bits per packet
Adaptive modulation, 20 Hz Doppler, mode 1



Average percentage loss of TP while learning scheme converges
Fig. 18 1/2 rate coding, 2-path Rayleigh fading, 96 bits per packet
Adaptive modulation, 20 Hz Doppler, mode 2

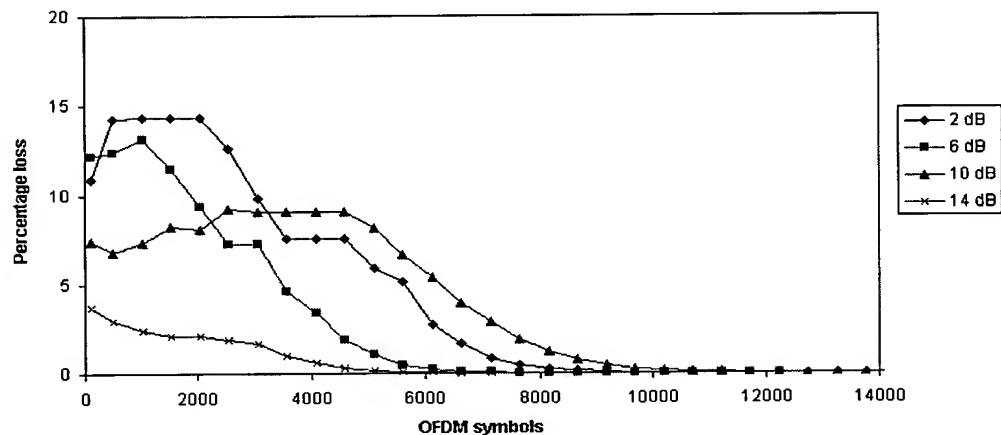


FIG. 19

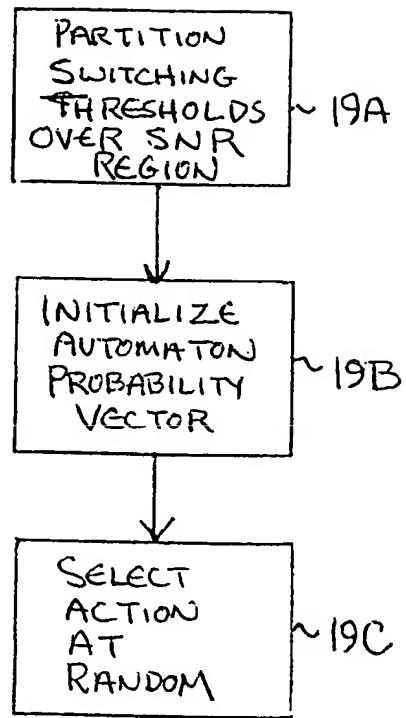


FIG. 20
(MODE 1)

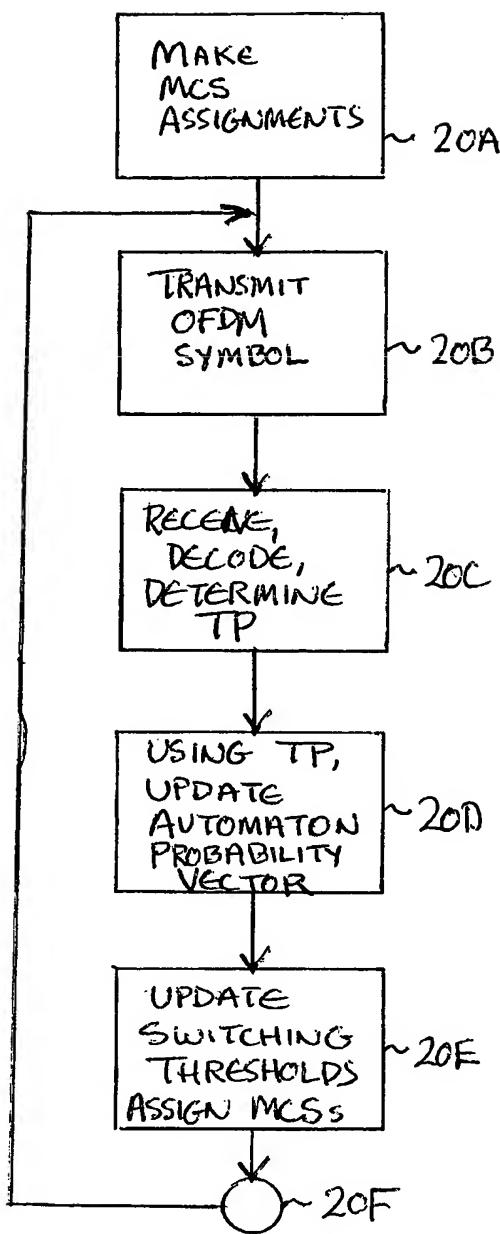


FIG. 21
(MODE 2)

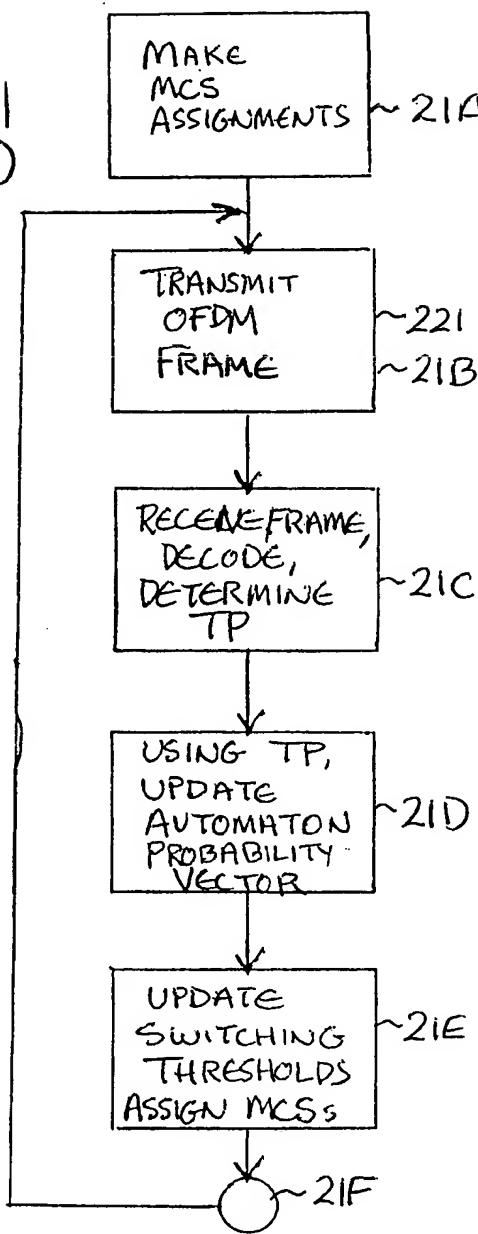
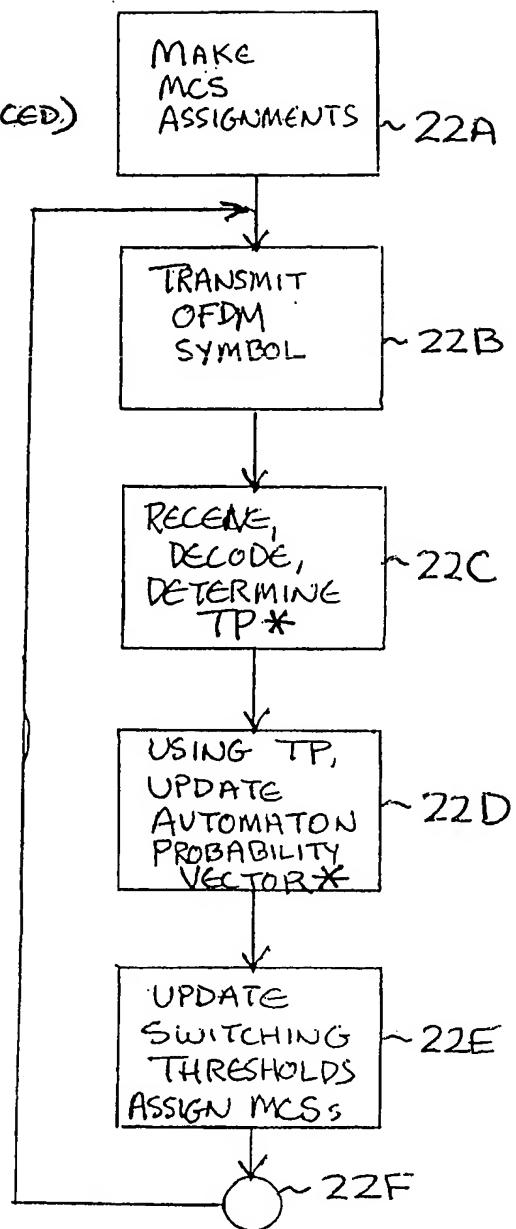


FIG. 22
(MODE 1 ENHANCED)



* PER PACKET

FIG. 23
(MODE 2 ENHANCED)

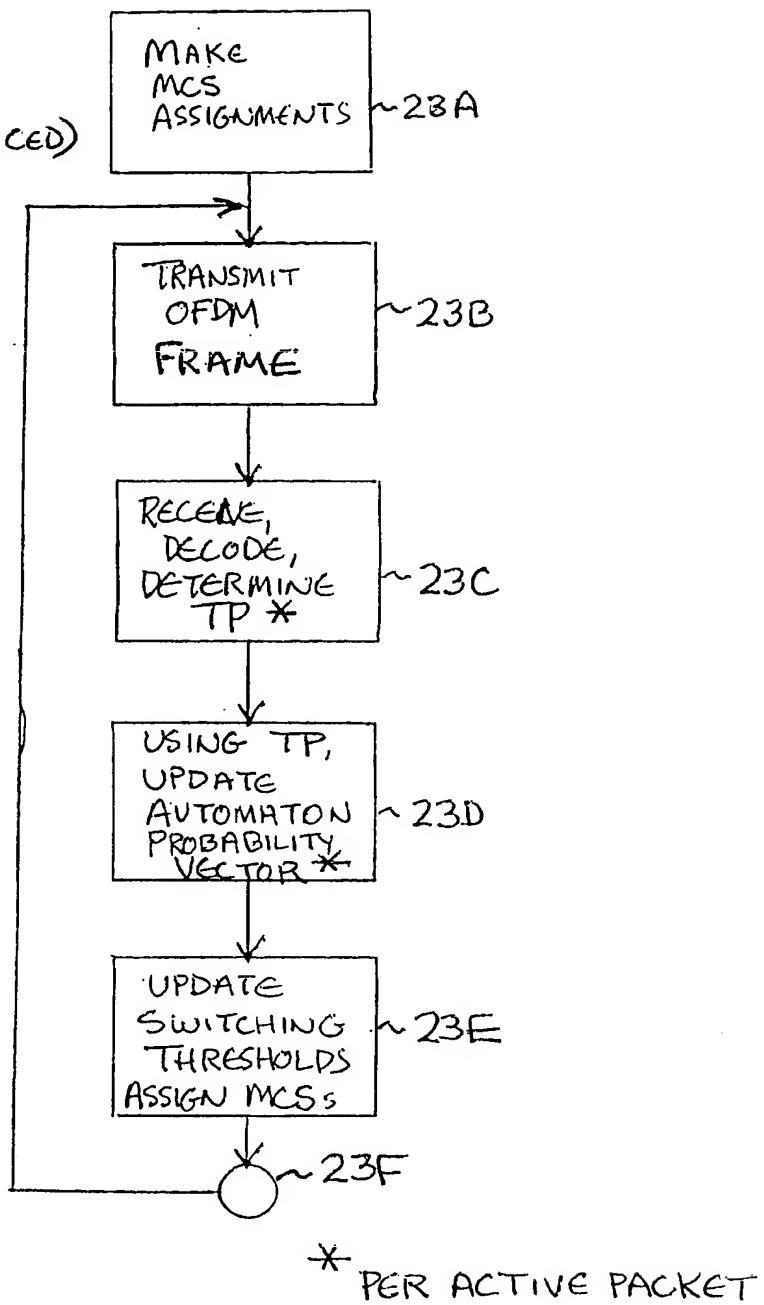
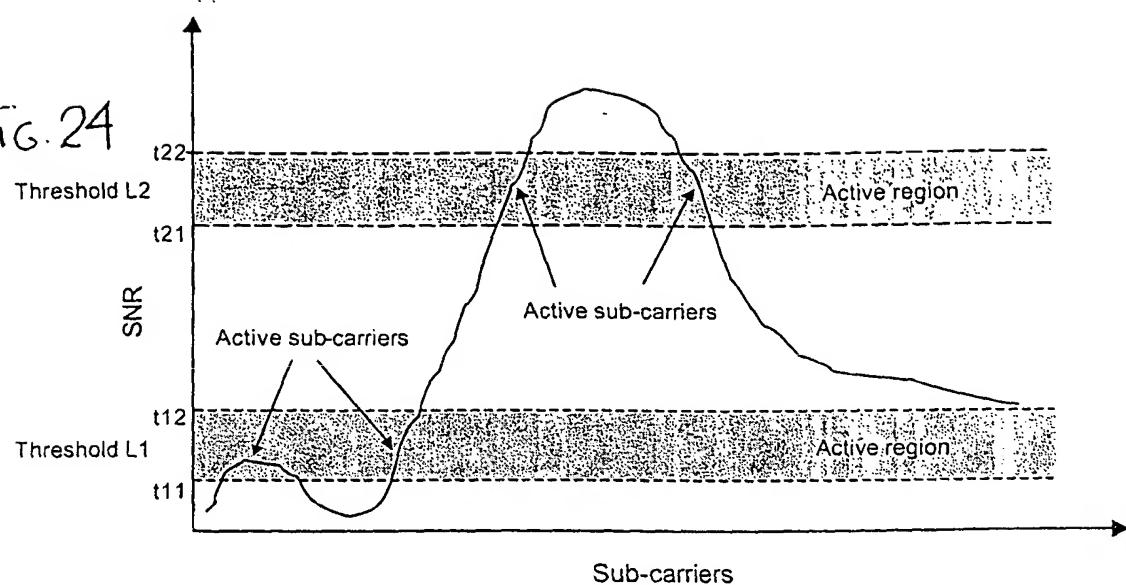


FIG. 24



Probability convergence of desired action, enhanced adaptive scheme
1/2 rate coding, 2-path Rayleigh fading, 96 bits per packet
Adaptive modulation, 20 Hz Doppler, mode 1

FIG. 25

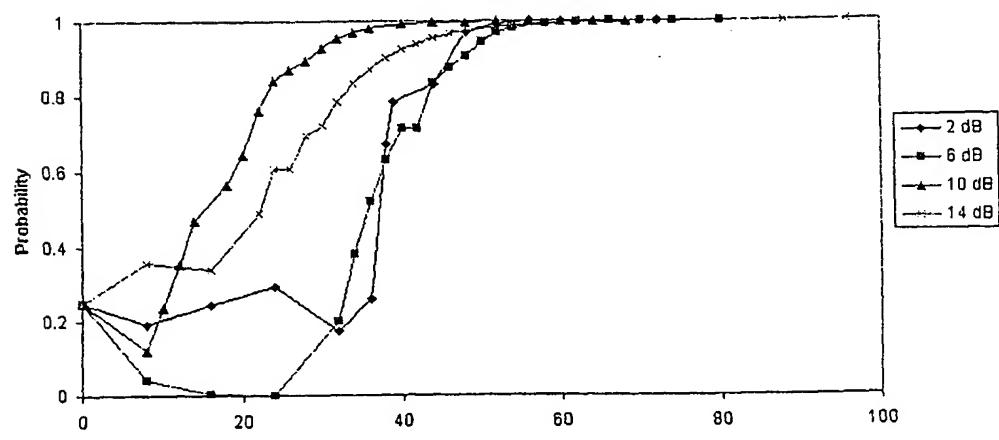


Fig. 26

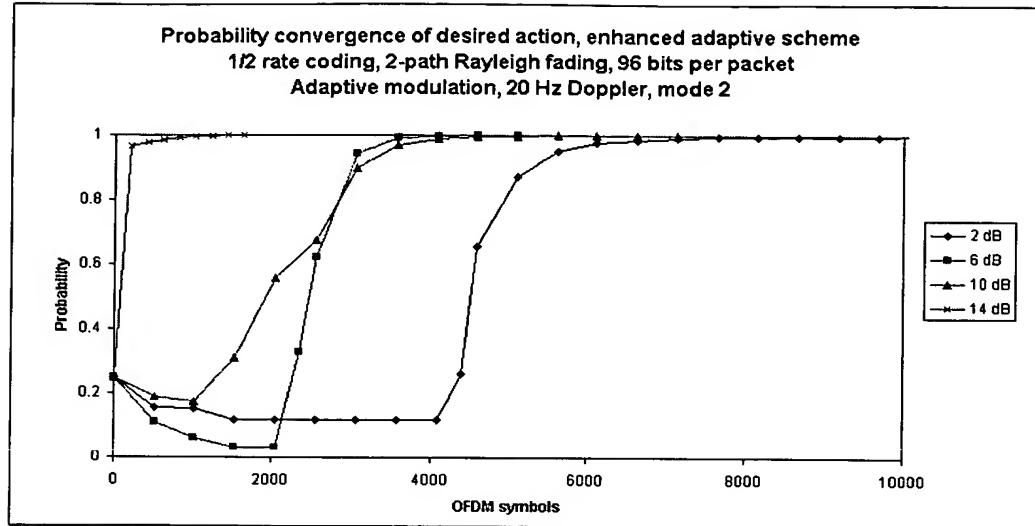


Fig. 27

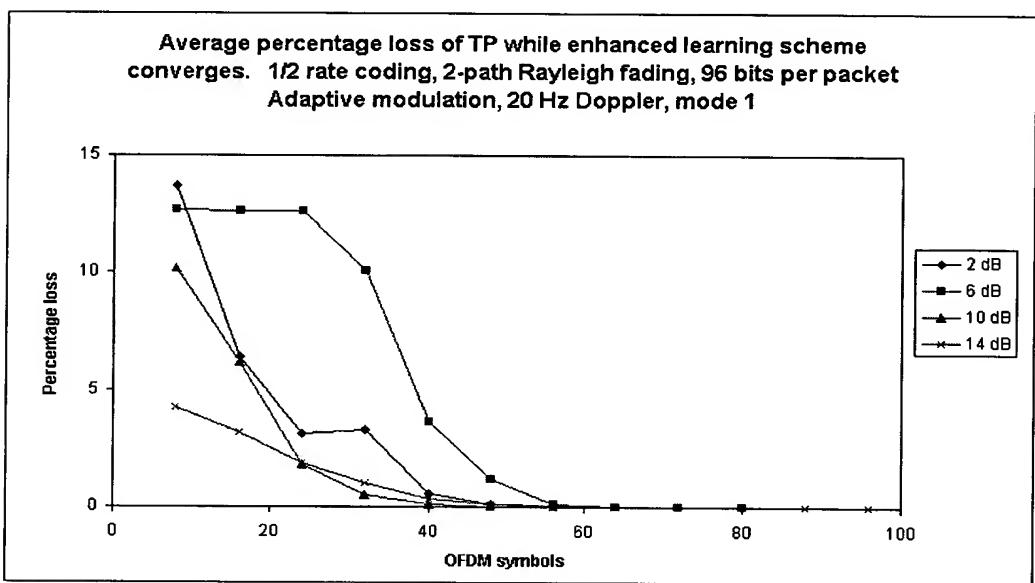


Fig. 28

